Listing of Claims

Claim 1. (Previously Amended) A method for calculating an optimum display size for a visual object comprising the steps of:

compressing a visual object with a visual object encoder;

for a predetermined number of frames of the visual object, calculating one or more signalto-noise ratios;

calculating a coding difficulty value as a function of the one or more calculated signal-to-noise ratios; and

determining the optimum display size for the visual object based on at least one of the coding difficulty value and a visual object transmission rate.

Claim 2. (Original) The method of claim 1, wherein the visual object comprises one of a graphical image and video.

Claim 3. (Original) The method of claim 2, wherein the graphical image comprises one of a banner advertisement, a photograph, and a graphical object.

Claim 4. (Original) The method of claim 3, wherein the video comprises one of a stored video and a live television signal.

Claim 5. (Original) The method of claim 1, further comprising the step of transmitting the visual object over a computer network.

Claim 6. (Original) The method of claim 1, further comprising the step of transmitting the visual

Claim 7. (Original) The method of claim 6, wherein the wireless medium comprises one of radio

frequency waves, infrared light waves, and a form of electromagnetic coupling.

Claim 8. (Original) The method of claim 1, further comprising the step of receiving a form of payment

as a requirement to encode the visual object.

object over a wireless medium.

Claim 9. (Original) The method of claim 1, further comprising the step of calculating signal-to-noise

ratios for one of sets of frames of the visual object, a sampling of frames of the visual object, and each

frame of the visual object.

Claim 10. (Original) The method of claim 1, wherein the visual object transmission rate comprises

one or more values measured in units of information per unit of time.

Claim 11. (Original) The method of claim 10, wherein the visual object transmission rate comprises

a speed at which binary digits are transmitted.

Claim 12. (Original) The method of claim 1, wherein the step of calculating a coding difficulty value

as a function of the calculated signal-to-noise ratios further comprises calculating the coding

difficulty value as a function of a harmonic mean of the signal to-noise ratio.

Claim 13. (Original) The method of claim 1, wherein the step of determining the optimum display

size for the visual object comprises the step of associating the coding difficulty value and a visual

object transmission rate of the visual object with one or more empirically determined functions.

Claim 14. (Original) The method of claim 13, further comprising the step of associating one of a

plurality of empirically determined stair step functions with values indicating a relative size of visual

object on display device.

Claim 15. (Original) The method of claim 1, further comprising the step of automatically displaying

the visual object with the optimum display size.

Claim 16. (Original) The method of claim 1, further comprising the step of displaying the visual

object with the optimum display size in response to a user command.

Claim 17. (Original) A method for calculating an optimum display size for a visual object

comprising the steps of:

for a predetermined number of frames of visual object, calculating a step size;

deriving a coding difficulty value as a function of step size; and determining the optimum display

size for the visual object based on at least one of the coding difficulty value and a visual object

transmission rate.

Claim 18. (Original) The method of claim 17, wherein the visual object comprises one of a graphical

image and video.

Claim 19. (Original) The method of claim 18, wherein the graphical image comprises one of a

banner advertisement, a photograph, and a graphical object.

Claim 20. (Original) The method of claim 19, wherein the video comprises one of a video downloaded

to a file from the internet, a live television signal, interact streaming, and video retrievable on a portable

storage medium.

Claim 21. (Original) The method of claim 17, further comprising the step of receiving the visual

object from a computer network.

Claim 22. (Original) The method of claim 17, further comprising the step of receiving the visual

object from a wireless medium.

Claim 23. (Original) The method of claim 22, wherein the wireless medium comprises one of radio

frequency waves, infrared light waves, and a form of electromagnetic coupling.

Claim 24. (Original) The method of claim 17, further comprising the step of receiving a form of

payment as a requirement to decode the visual object.

Claim 25. (Original) The method of claim 17, further comprising the step of calculating step sizes

for one of: sets of frames of the visual object, a sampling of frames of the visual object, and each

frame of the visual object.

Claim 26. (Original) The method of claim 25, wherein the step of calculating the step size further

comprises the step of calculating the step size based upon a first transformation coefficient.

Claim 27. (Original) The method of claim 26, wherein the step of calculating the step size further

comprises the step of calculating the step size based upon a second transformation coefficient.

Claim 28. (Original) The method of claim 17, further comprising the step of calculating a mean

value of the calculated step sizes.

Claim 29. (Original) The method of claim 17, wherein the step of determining the optimum display

size for the encoded visual object comprises the step of associating the coding difficulty value and

the visual object transmission rate of the visual object with one of an empirically determined

function.

Claim 30. (Original) The method of claim 29, further comprising the step of associating one of a

plurality of stair step functions and a plurality of diagonal zones with values indicating a relative size

of visual object on a display device.

Claim 31. (Original) The method of claim 17, further comprising the step of automatically

displaying the visual object with the optimum display size.

Claim 32. (Original) The method of claim 17, further comprising the step of displaying the visual

object with the optimum display size in response to a user command.

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Claim 33. (Original) The method of claim 17, wherein the step of displaying a message further comprises displaying a message with one of a cathode my tube, a liquid crystal display, a light

emitting diode display and a projector.

Claim 34. (Original) The method of claim 1, wherein the step of displaying a message further comprises displaying a message with one of a cathode ray tube, a liquid crystal display, a light emitting diode display, and a projector.

Claim 35. (Original) A system for calculating an optimum display size for a visual object comprising:

an encoder for compressing a visual object, for calculating a signal-to-noise ratio for a predetermined number of flames of the visual object, for calculating a coding difficulty value as a function of the calculated signal-to-noise ratios;

a display size selector for determining an optimum display size of the visual object based on the coding difficulty value and a visual object transmission rate; and

a display device for displaying a message indicating the optimum display size for the encoded visual object.

Claim 36. (Original) The system of claim 35, further comprising an audio encoder and an audio/video system multiplexer.

Claim 37. (Original) The system of claim 35, wherein the encoder calculates a harmonic mean of a peak to noise ratio for a predetermined number of frames of the visual object.

Claim 38. (Original) The system of claim 35, wherein the display size selector determines the optimum display sized based upon an empirically derived relationship between the coding difficulty value and the visual object transmission rate.

Claim 39. (Original) The system of claim 35, wherein the visual object comprises one of a graphical image and video.

Claim 40. (Original) A system for calculating an optimum display size for a visual object comprising:

an decoder for decompressing a visual object, for calculating a step size for a predetermined number of frames of the visual object, for estimating a coding difficulty value as a function of step size;

a display size selector for determining an optimum display size of the visual object based on the estimated coding difficulty value and a visual object transmission rate; and

a display device for displaying a message indicating the t0 optimum display size for the encoded visual object.

Claim 41. (Original) The system of claim 40, further comprising a visual object render for generating the decompressed visual object.

Claim 42. (Original) The system of claim 40, further comprising an audio decoder and an audio/video system de-multiplexer.

Claim 43. (Original) The system of claim 40, wherein the decoder estimates a harmonic mean of a peak to noise ratio for a predetermined number of frames of the visual object.

Claim 44. (Original) The system of claim 40, wherein the display size selector determines the optimum display sized based upon an empirically derived relationship between the coding difficulty value and the visual object transmission rate.

Claim 45. (Original) The system of claim 40, wherein the visual object comprises one of a graphical image and video.

Claim 46. (Original) The method of claim 17, further comprising the step. of displaying a message indicating the optimum display size for the visual object.

Claim 47. (Original) A method for calculating an optimum display size for a visual object comprising the steps of:

compressing a visual object with a visual Object encoder; determining the optimum display size for the visual object based on at least one of a coding difficulty value and a visual object transmission rate; and

displaying a message indicating the optimum display size for the encoded visual object.

Claim 48. (Original) The method of claim 47, wherein the step of determining an optimum display size further comprises the step of evaluating one of a quality of the display device and a size of the display device.

ATTORNEY DOCKET NO. 05145.0008U1 APPLICATION NO. 09/902,995 Page 10 of 14

Claim 49. (Original) The method of claim 47, further comprising the step of automatically displaying the visual object with the optimum display size.

Claim 50. (Original) The method of claim 47, further comprising the step of displaying the visual object with the optimum display size in response to a user command.

Claim 51. (Original) The method of claim 1, further comprising the step of displaying a message indicating the optimum display size for the encoded visual object.